

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A display device comprising:
 - a plurality of independently addressable pixels,
 - wherein ~~said the~~ pixels comprise:
 - a first substrate;
 - a second substrate;
 - a polyelectrochromic material disposed between ~~said the~~ first substrate and ~~said the~~ second substrate;
 - at least two independent electrodes associated with ~~said the~~ first substrate; an independent counter-electrode associated with ~~said the~~ second substrate;
 - wherein each respective electrode is connected to an independently controllable voltage source; and
 - ~~said display device having~~ means for controlling the voltage applied to each respective electrode for producing non-uniform electric fields in the polyelectrochromic material in each pixel, for causing partial switching of the polyelectrochromic material from a first color state to a second color state for generating an area ratio defined pixel color state.
2. (Currently amended) The display device of claim 1, wherein ~~said the~~ display device ~~further has~~ includes means for controlling the time during which voltage is applied to each respective electrode.

3. (Currently amended) The display device of claim 1, wherein ~~said~~ the display device ~~further has~~ includes means for controlling the voltage applied to each respective electrode of the pixel when in the second color state to cause a reset from the second color state to the first color state.

4. (Currently amended) The display device of claim 1, wherein ~~said~~ the display device ~~further has~~ includes memory storage means for storing a previously generated color state.

5. (Currently amended) The display device of claim 4, wherein ~~said~~ the display device ~~further has~~ includes means for comparing a color state to be achieved with a previously generated color state.

6. (Currently amended) The display device of claim 5, wherein ~~said~~ the display device ~~further has~~ includes means for determining the required potential to be applied to each respective electrode in order to reach a desired color state.

7. (Currently amended) A method for generating analog color states in a pixel of a display device having a first substrate; a second substrate; a polyelectrochromic material disposed between ~~said~~ the first substrate and ~~said~~ the second substrate, comprising ~~the steps of~~:

providing at least two independent electrodes to be associated with ~~said~~ the first substrate;

providing an independent counter-electrode to be associated with ~~said~~ the second substrate;

providing connection of each respective electrode to an independently controllable voltage source; and

providing means for controlling the voltage applied to each respective electrode for producing non-uniform electric fields in the polyelectrochromic material in each pixel, for causing partial switching of the polyelectrochromic material from a first color state to a second color state to generate an area ratio defined pixel color state.

8. (Currently amended) The method of claim 7, ~~further comprising the step of~~ including:

providing means for controlling the time during which voltage is applied to each respective electrode.

9. (Currently amended) The method of claim 7, ~~further comprising the steps of~~ including:

providing memory storage means for storing a previously generated color state;

providing means for comparing a color state to be achieved with a previously generated color state;

providing means for determining the required potential to be applied to each respective electrode in order to reach a desired color state.

10. (Currently amended) A computer program product directly loadable into the internal memory of a digital computer comprising software code portions for performing the following steps when said the product is run on a computer:

 providing to at least two independent electrodes of an independently addressable pixel of an electrochromic display device a connection to an independently controllable voltage source;

 providing control of the voltage applied to each respective electrode for producing non-uniform electric fields in the polyelectrochromic material in each pixel;

 providing control of the time during which voltage is applied to each respective electrode.

11. (Currently amended) A computer program product stored on a computer readable storage medium, comprising computer readable program code means for causing a computer to perform the following steps:

 providing to at least two independent electrodes of an independently addressable pixel of an electrochromic display device a connection to an independently controllable voltage source;

 providing control of the voltage applied to each respective electrode for producing non-uniform electric fields in the polyelectrochromic material in each pixel;

 providing control of the time during which voltage is applied to each respective electrode.